

Amendments to the Claims

This listing of claims will replace all prior versions and listings of claims in the application.

1. (Currently amended) An acoustic contact detecting device, comprising:
 - (a) a substrate having a top surface and a bottom surface;
 - (b) an acoustic wave transducer for coupling with a first wave representative of a bulk wave being propagated between the top surface and the bottom surface through said substrate along an axis crossing said top surface;
 - (c) a planar wiring for supplying said acoustic wave transducer with electric power;
 - (d) a connecting device for connecting said acoustic wave transducer with the planar wiring;
 - (e) a diffractive acoustic wave mode coupler having a mode of converted wave having high energy on said top surface and functioning for coupling a second wave being propagated along an axis parallel to said top surface with said first wave; and
 - (f) a means for detecting a perturbation in the energy of said second wave.
2. (Currently amended) A coordinate input device of touch-type comprising: a propagation medium having a top surface and a bottom surface, said top surface being capable of propagating an acoustic wave; a bulk wave generation means for propagating a bulk wave in a crossing direction with respect to said top surface of said propagation medium; a planar wiring for supplying this bulk wave generation means with electric power; a connecting device for providing an electrical connection between said bulk wave generation means and said planar wiring; an acoustic wave generation means for converting said bulk wave into an acoustic wave and propagating said acoustic wave on the top surface of said propagation medium; and a detecting means for detecting a scatter in the surface of the acoustic wave from said acoustic wave generation means.
3. (Original) A device in accordance with claim 1 or 2, in which said acoustic wave transducer is composed of a piezoelectric vibrator.
4. (Original) A device in accordance with claim 1 or 2, in which said wiring is formed by using conductive paste.

5. (Original) A device in accordance with either of claim 1, 2 or 4, in which said wiring is formed by way of transfer printing.
6. (Currently amended) A device in accordance with claim 1 or 2, in which said wiring is formed on the bottom ~~a back~~ surface of the substrate.
7. (Original) A device in accordance with claim 1 or 2, in which said connecting device is made of conductive material having a step corresponding to a profile of said acoustic wave transducer.
8. (Original) A device in accordance with claim 1 or 2, in which said acoustic wave transducer comprises a piezoelectric substrate and a piezoelectric vibrator having electrode sections disposed on both surfaces of said piezoelectric substrate, and said planar wiring comprises a first wiring section capable of contacting with one of said electrode sections of said piezoelectric vibrator by way of line or face contact and a second wiring section spaced and insulated from said first wiring section, wherein said connecting device is formed in a form capable of connecting the other electrode section of said piezoelectric vibrator with said second wiring section.
9. (Currently amended) A substrate for an acoustic detecting device having a top surface and a bottom surface, said substrate further comprising:
 - (a) an acoustic wave transducer coupled with a bulk wave having a propagation axis crossing said top surface in the substrate;
 - (b) a wiring for supplying said acoustic wave transducer with electric power, said wiring being printed on the bottom ~~a back~~ surface of said substrate;
 - (c) a connecting device for connecting said acoustic wave transducer with said wiring;
 - (d) a diffractive acoustic wave mode coupling structure formed in the proximity to said top surface for converting acoustic energy of the bulk wave into a wave to be propagated along an axis parallel to said top surface; and
 - (e) a means for detecting the converted acoustic wave energy corresponding to a position of a perturbation event.
10. (Previously presented) A touch input device, comprising:
 - a substrate having a first planar surface and a second planar surface;
 - an acoustic wave transducer for generating acoustic waves, the acoustic wave transducer coupled to the second planar surface such that generated acoustic waves are transmitted to the first planar surface;

planar wiring applied to the second planar surface; and
means for connecting the planar wiring to the acoustic wave transducer.

11. (Previously presented) A touch input device as recited in claim 10, wherein the means for connecting the planar wiring to the acoustic wave transducer comprises a discrete connector.
12. (Previously presented) A touch input device as recited in claim 10, wherein the planar wiring comprises a composite conductive material.
13. (Previously presented) A touch input device as recited in claim 10, wherein the planar wiring is applied by transfer printing.
14. (Previously presented) A touch input device as recited in claim 10, further comprising a linear array of acoustically reflective elements on the first planar surface and wherein the planar wiring resides on a portion of the second planar surface substantially opposite to the linear array of acoustically reflective elements.